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DAVID S. ROSENZWEIG  
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March 5, 2004

Mary L. Cottrell, Secretary  
Department of Telecommunications and Energy  
One South Station, 2<sup>nd</sup> Floor  
Boston, Massachusetts 02110

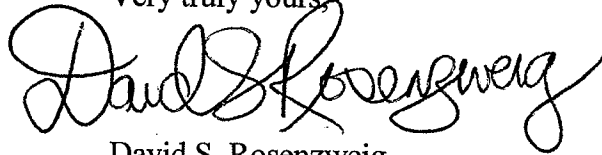
Re: D.T.E. 03-121, NSTAR Electric Standby Rate Tariffs

Dear Secretary Cottrell:

Enclosed for filing in the above-referenced matter are an original and six (6) copies of NSTAR Electric's responses to the Information Requests on the accompanying list. Because of the size and number of bulk attachments, such attachments have been provided on CD. Two paper copies of each of these bulk attachments will be provided to the Department of Telecommunications and Energy on Monday, March 8, 2004.

Thank you for your attention to this matter.

Very truly yours,



David S. Rosenzweig

Enclosures

cc: William Stevens, Hearing Officer  
Service List

## Responses to Information Requests

Information Request DTE-3-1  
Information Request DTE-3-2  
Information Request DTE-3-3  
Information Request DTE-3-4  
Information Request DTE-3-5  
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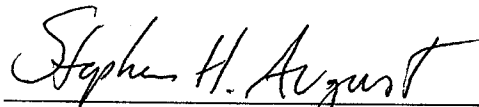
**COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TELECOMMUNICATIONS AND ENERGY**

_____	)	
Boston Edison Company	)	
Cambridge Electric Light Company	)	
Commonwealth Electric Company	)	
d/b/a NSTAR Electric	)	
_____	)	

D.T.E. 03-121

**CERTIFICATE OF SERVICE**

I certify that I have this day served the foregoing documents upon the service list  
in the above-docketed proceeding in accordance with the requirements of 220 C.M.R.  
1.05.



\_\_\_\_\_  
Stephen H. August, Esq.  
Keegan, Werlin & Pabian, LLP  
265 Franklin Street  
Boston, MA 02110  
(617) 951-1400

Dated: March 5, 2004

Information Request DTE-3-1

Please provide a list of all customers currently taking service under Commonwealth Electric Company's ("Commonwealth") Power Purchase Rate P-1 (M.D.T.E. No. 360). For each customer listed, provide a copy of the QF Power Purchase Agreement, and all amendments thereto, entered into between Commonwealth and the customer.

Response

Please see Attachment DTE-3-1(a) for the latest (2002) annual QF filing for NSTAR Electric. Customers in operation prior to August 1, 2000 are eligible to sell electricity under Rate P-1. The last two customers shown on the report began operation after this date and sell electricity under the P-2 rate. Attachment DTE-3-1(b) shows the revisions that will be included in the proposed annual filing for 2003. These customers all began service after August 1, 2000 and are served under Rate P-2. Please note that the attachments do not include the names and addresses of the customers in order to protect the privacy interest of those customers.

The Company is unable to locate any such service agreements at this time. If any copies later become available during this proceeding, they will be provided in the form of a supplemental response to the information request.

# *NSTAR Electric*

Activities of Qualifying Facilities and On-Site Generating Facilities  
Reporting Period: January 1, 2002 through December 31, 2002

## Commonwealth Electric

Customer	Facility Type	Energy Source	Installation Date	Online Date	Delivery Method	Design Cap. (kW)	Estimated Annual Run Hrs (1)
1	Fuel Cell	Natural Gas	1999	1999	Contract	200.0	8229
2	Water Turbine	Hydro	N/A	12/01/1982	Contract	225.0	1300
3	Water Turbine	Hydro	03/01/1983	03/01/1983	Net	7.0	0
4	Water Turbine	Hydro	03/25/1983	04/04/1983	Net	15.0	1618
5	Wind Mill	Wind	N/A	11/01/1983	Net	7.5	0
6	Cogen 60kW-1 MW	Nat Gas	05/17/1991	07/17/1991	Contract	150.0	500
7	Cogen < 60kW	#2 Fuel Oil	03/10/1992	03/16/1992	Net	5.0	0
8	Cogen > 1 MW	Nat Gas	03/01/1993	07/05/1994	Contract	1,050.0	8712
9	Cogen < 60kW	#2 Fuel Oil	11/16/1994	11/22/1994	Net	5.0	397
10	Cogen < 60kW	#2 Fuel Oil	05/05/1995	05/13/1995	Net	5.0	1000
11	Cogen < 60kW	#2 Fuel Oil	08/08/1995	08/11/1995	Net	5.0	1000
12	Cogen < 60kW	#2 Fuel Oil	12/26/1995	01/05/1996	Net	5.0	1000
13	Cogen < 60kW	#2 Fuel Oil	03/28/1996	04/01/1996	Net	5.0	1000
14	Cogen < 60kW	#2 Fuel Oil	07/30/1996	08/14/1996	Net	5.0	1000
15	Cogen < 60kW	#2 Fuel Oil	09/01/1996	12/12/1996	Net	5.0	1000
16	Cogen < 60kW	#2 Fuel Oil	12/02/1996	12/20/1996	Net	5.0	0
17	Cogen < 60kW	#2 Fuel Oil	01/31/1997	02/07/1997	Net	5.0	0
18	Cogen < 60kW	Nat Gas	10/22/1997	10/30/1997	Net	5.0	0
19	Photovoltaic	Solar	10/01/1997	11/15/1997	Net	2.0	1250
20	Cogen < 60kW	Nat Gas	11/15/1997	12/01/1997	Net	5.0	252
21	Cogen < 60kW	Nat Gas	11/01/1998	01/18/1998	Net	5.0	0
22	Cogen < 60kW	Propane	05/20/1998	06/15/1998	Net	5.0	486
23	Photovoltaic	Solar	06/19/1996	08/19/1998	Net	2.0	1250
24	Photovoltaic	Solar	10/15/1998	11/01/1998	Net	2.0	1250
25	Photovoltaic	Solar	11/01/1998	12/15/1999	Net	2.0	1250
26	Photovoltaic	Solar	03/15/2000	03/15/2000	Net	1.0	1250
27	Photovoltaic	Solar	10/16/2001	10/16/2001	Net	0.2	1250
28	Cogen 60kW-1 MW	Nat Gas	2002	06/24/1905	Net	60.0	4000
Total						1,733.7	

### Notes

1. Estimated Annual Run Hours supplied by customer if available or best estimate.

COMMONWELATH ELECTRIC COMPANY					
Status	Customer	Rate	Date of Request	Size (kw)	Generator Type
On-Line	1	5084	03/20/2001	250	Fuel Cell
On-Line	2	6033	02/10/2003	4	Solar
On-Line	3	1032	03/18/2003	1.8	Solar
On-Line	4	1166	04/07/2003	1.15	Solar
On-Line	5	1166	04/08/2003	0.9	Solar
On-Line	6	2086	05/10/2003	1.146	Solar
On-Line	7	1057	05/13/2003	1.146	Solar
On-Line	8	3033	05/15/2003	1.146	Solar
	9	1032	05/24/2003	1.146	Solar
	10	1032	07/24/2003	1	Solar
	11	1032	08/11/2003	1.146	Solar
	12	3533	08/11/2003	1.146	Solar
	13	1032	08/11/2003	1.146	Solar
	14	1032	08/12/2003	1.146	solar
	15	1032	08/13/2003	1	Solar
	16	1032	08/13/2003	1	Solar
	17	1166	08/26/2003	1.14-2	Solar
	18		08/26/2003	1.146	Solar
	19	1032	08/26/2003	1	Solar
	20	6035	08/26/2003	1.146	Solar
	21	3084	09/02/2003	3.5	Solar
	22	6033	09/16/2003	3	Solar
	23	1032	09/26/2003	2	Solar
	24	6033	10/15/2003	1.125	Solar
	25	1032	10/15/2003	1.125	Solar
	26		10/15/2003	1.5	Solar
	27	1032	10/15/2003	1.125	Solar
	28	6033	10/15/2003	2.5	Solar
	29	1168	10/29/2003	2.5	Solar
On-Line	30	1032	11/03/2003	5	Solar
	31	1032	11/24/2003	1	Solar
	32	1032	12/04/2003	2.5	Solar
	33		12/04/2003	2	Solar
	34	1032	12/30/2003	1.5	Solar
	35	1032	01/19/2004	2	Solar
	36	1032	01/19/2004	1.5	Solar
	37	1030	01/19/2004	2.5	Solar
	38		01/22/2004	4300	Synchronous I/C

NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Information Request: **DTE-3-2**  
March 5, 2004  
Person Responsible: Henry C. LaMontagne  
Page 1 of 1

Information Request DTE-3-2

Please provide a list of all customers currently taking service under Commonwealth's Power Purchase Rate P-2 (M.D.T.E. No. 361). For each customer listed, provide a copy of the QF Power Purchase Agreement, and all amendments thereto, entered into between Commonwealth and the customer.

Response

Please see the response to Information Request DTE-3-1.

Information Request DTE-3-3

Please provide a copy of Commonwealth's:

- (a) Standards for Interconnection with Small Power Producers and Cogenerators referred to in the existing tariff for rate P-1
- (b) Standards for Interconnection with Qualifying Facilities or On-Site Generating Facilities referred to in the existing tariff for rate P-2.

Response

Please see the response to Information Request DTE-2-5.



NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Information Request: **DTE-3-4**  
March 5, 2004  
Person Responsible: Henry C. LaMontagne  
Page 1 of 1

Information Request DTE-3-4

Refer to Exh. NSTAR-HCL-4. Please provide a copy of Exhibit COM-HCL-3 (Pre-RAD Rates and Unbundled Rate Design) of Commonwealth's reconciliation/true-up filings for years 1999 through 2003.

Response

Please refer to Attachments DTE-3-4(a) through DTE-3-4(e) for Commonwealth's reconciliation filings for 1999 through 2003, respectively. Please note that the attachment represents a bulk document and, as such, only two (2) copies are being provided to the Department.

NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Information Request: **DTE-3-5**  
March 5, 2004  
Person Responsible: Henry C. LaMontagne  
Page 1 of 1

Information Request DTE-3-5

Please provide the monthly non-coincident and coincident peak demand for Commonwealth's rate classes G-2 and G-3 for years 1998 through 2003.

Response

Please see Attachments DTE-3-5(a) and DTE-3-5(b), which provide the monthly non-coincident and coincident peak demands, respectively. The Company has provided the requested information for Rates G-2 and G-3 for 1995 (the year of the Company's last demand study), 2000 through 2002. Year 2003 information is not yet available. However, the Company has provided total billing demands for 2003 in Attachment DTE-3-5(a).

**COMMONWEALTH ELECTRIC  
MONTHLY NON-COINCIDENT DEMANDS**

	LOAD RESEARCH DATA		BILLING
	G2-NCD-MEAN	G3-NCD-MEAN	G2-NCD
01/1995	75,446	58,755	
02/1995	75,224	86,405	
03/1995	71,271	61,325	
04/1995	74,994	60,962	
05/1995	80,378	57,959	
06/1995	87,240	63,880	
07/1995	97,337	69,411	
08/1995	88,471	64,219	
09/1995	82,268	70,795	
10/1995	76,503	68,321	
11/1995	86,471	59,283	
12/1995	73,886	66,094	
01/1998			
02/1998			
03/1998			
04/1998			
05/1998			
06/1998			
07/1998			
08/1998			
09/1998			
10/1998			
11/1998			
12/1998			
01/1999			
02/1999			
03/1999			
04/1999			
05/1999			
06/1999			
07/1999			
08/1999			
09/1999			
10/1999			
11/1999			
12/1999			
01/2000	94,443.39	71,722.01	
02/2000	88,437.14	71,069.42	
03/2000	90,939.33	70,374.25	
04/2000	90,949.35	73,191.10	
05/2000	99,207.04	75,479.07	
06/2000	112,585.33	76,482.92	
07/2000	100,502.93	72,665.31	
08/2000	106,032.02	78,251.53	
09/2000	106,581.76	81,053.17	

**COMMONWEALTH ELECTRIC  
MONTHLY NON-COINCIDENT DEMANDS**

	LOAD RESEARCH DATA		BILLING
	G2-NCD-MEAN	G3-NCD-MEAN	G2-NCD
10/2000	96,615.44	76,512.93	
11/2000	93,684.53	74,500.24	
12/2000	96,205.22	72,573.23	
01/2001	92,887.27	69,938.74	
02/2001	91,519.17	69,872.81	
03/2001	93,395.66	72,291.68	
04/2001	95,692.63	73,728.46	
05/2001	103,525.90	76,821.51	
06/2001	114,326.92	78,553.93	
07/2001	111,280.96	77,896.18	
08/2001	115,910.69	79,185.44	
09/2001	111,625.94	79,831.29	
10/2001	103,721.62	78,196.67	
11/2001	100,141.99	75,239.21	
12/2001	100,457.45	72,246.65	
01/2002	97,772.54	72,428.11	
02/2002	97,764.89	73,648.10	
03/2002	98,627.58	73,418.61	
04/2002	106,131.04	77,824.08	
05/2002	104,522.87	78,998.87	
06/2002	111,950.16	81,654.70	
07/2002	116,665.66	83,350.50	
08/2002	117,612.83	83,204.77	
09/2002	114,294.73	83,804.89	
10/2002	111,816.50	81,993.72	
11/2002	104,376.01	75,812.52	
12/2002	103,136.20	75,537.94	
01/2003			101,034
02/2003			104,581
03/2003			103,893
04/2003			112,113
05/2003			123,207
06/2003			127,235
07/2003			134,283
08/2003			135,451
09/2003			138,016
10/2003			124,554
11/2003			120,597
12/2003			95,714

**COMMONWEALTH ELECTRIC  
MONTHLY COINCIDENT PEAK DEMANDS  
LOAD RESEARCH DATA**

	<b>G2-CD-MEAN</b>	<b>G3-CD-MEAN</b>
01/1995	64,745.00	42,328.00
02/1995	63,006.00	68,188.00
03/1995	58,428.00	45,250.00
04/1995	60,014.00	45,497.00
05/1995	68,606.00	52,182.00
06/1995	85,146.00	61,346.00
07/1995	89,683.00	58,384.00
08/1995	72,777.00	50,569.00
09/1995	67,872.00	54,520.00
10/1995	56,878.00	48,131.00
11/1995	71,853.00	50,015.00
12/1995	62,412.00	54,441.00
01/1998		
02/1998		
03/1998		
04/1998		
05/1998		
06/1998		
07/1998		
08/1998		
09/1998		
10/1998		
11/1998		
12/1998		
01/1999		
02/1999		
03/1999		
04/1999		
05/1999		
06/1999		
07/1999		
08/1999		
09/1999		
10/1999		
11/1999		
12/1999		
01/2000	75,268.07	57,948.74
02/2000	72,347.50	58,030.52
03/2000	72,136.14	59,518.23
04/2000	73,116.55	61,162.13
05/2000	83,935.52	65,578.99
06/2000	88,314.71	65,324.13
07/2000	84,691.54	60,955.80

**COMMONWEALTH ELECTRIC  
MONTHLY COINCIDENT PEAK DEMANDS  
LOAD RESEARCH DATA**

	<b>G2-CD-MEAN</b>	<b>G3-CD-MEAN</b>
08/2000	90,795.26	64,839.65
09/2000	91,416.52	67,773.06
10/2000	78,657.32	65,183.80
11/2000	73,402.34	61,710.08
12/2000	76,518.02	60,470.43
01/2001	76,228.83	58,024.82
02/2001	74,975.26	57,168.13
03/2001	75,131.45	58,890.01
04/2001	76,131.42	61,971.04
05/2001	87,481.12	66,269.08
06/2001	94,465.70	66,636.37
07/2001	97,524.49	61,184.43
08/2001	98,378.70	65,997.72
09/2001	94,069.35	63,821.78
10/2001	85,472.30	64,078.25
11/2001	78,705.09	63,562.01
12/2001	77,105.16	61,610.51
01/2002	76,912.14	61,522.01
02/2002	78,984.94	60,412.67
03/2002	77,484.43	62,210.90
04/2002	81,641.74	62,662.66
05/2002	86,885.64	66,698.22
06/2002	94,368.99	70,164.66
07/2002	99,512.62	68,407.95
08/2002	101,347.30	70,731.44
09/2002	97,800.27	70,120.81
10/2002	94,882.07	72,287.86
11/2002	79,888.20	63,920.89
12/2002	83,512.82	62,274.40

NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Information Request: **DTE-3-6**  
March 5, 2004  
Person Responsible: Henry C. LaMontagne  
Page 1 of 1

Information Request DTE-3-6

Please provide with supporting data and calculations the annual load duration curves for Commonwealth's rate classes G-2 and G-3 for years 1998 through 2003.

Response

Please see Attachments DTE-3-6(a) through(e), which provide the annual load duration curves and supporting data for rates G-2 and G-3 for years 1998 through 2002. Data for 2003 is not yet available.

NSTAR Electric  
Department of Telecommunications and Energy  
D.T.E. 03-121  
Information Request: **DTE-3-7**  
March 5, 2004  
Person Responsible: Henry C. LaMontagne  
Page 1 of 1

Information Request DTE-3-7

Please provide the number of customers taking service under Commonwealth's rate classes G-2 and G-3 for years 1998 through 2003.

Response

Please see Attachment DTE-3-7 for the number of customers served under G-2 and G-3 for 1998 through 2003.



**D.T.E. 03-121**  
**Attachment DTE-3-7**

[illegible]

Information Request DTE-3-8

Please list and explain the reasons why Commonwealth's proposed standby rate SB-1 will be made available only to customers who qualify for service under Commonwealth's rate G-3.

Response

As described in Exhibit NSTAR-HCL-1, at 16, the proposed rates reflect the availability and charges included in the otherwise applicable rate schedule. Accordingly, the proposed rates apply to customers who would qualify for the corresponding otherwise applicable rate schedule. Commonwealth proposed separate standby rates for each continuous-service rate applicable to new customers with billing demands greater than 60 kW. Customers with backup requirements of less than or equal to 60 kW are allowed to net meter under the Company's Standards for Interconnection with Qualifying Facilities or On-Site Generating Facilities. Accordingly, such customers receive backup service directly under the otherwise applicable rate schedule for which they qualify. For Commonwealth, the rates applicable to customers with standby/backup requirements of greater than 60 kW are Rate G-2, Rate G-3. Therefore, Commonwealth has proposed standby rates applicable to new customers who qualify for those rate schedules.

Information Request DTE-3-9

Please list and explain the reasons why Commonwealth's proposed standby rate SB-2 will be made available only to customers who qualify for service under Commonwealth's existing rate G-2.

Response

Please see the response to Information Request DTE-3-8.

Information Request DTE-3-10

Please list and describe each of the internal electric requirements used as a basis for determining a customer's eligibility for Commonwealth's proposed standby rates SB-1 and SB-2.

Response

Please refer to the response to Information Request DTE-2-14.

Information Request DTE-3-11

In reference to section 2 of the availability clauses for Commonwealth's proposed standby rates SB-1 and SB-2, please list and explain the reasons why rates SB-1 and SB-2 will be made available only to a customer whose generating units have a combined nameplate rating of greater than 60 kW. Please indicate the required minimum kW nameplate rating, if any, for an individual generating unit in the customer's portfolio of generating units under these availability clauses.

Response

Please see the response to Information Request DTE-3-8.

Information Request DTE-3-12

In reference to section 4 of the availability clause for Commonwealth's proposed standby rates SB-1 and SB-2, please:

- a) list and explain the reasons why these rates will be made available only to a customer who began satisfying all, or a portion of, its internal electric load requirements from its generation units after the effective date of the proposed tariffs;
- b) identify any existing tariff of Commonwealth that would qualify as a standby tariff; if none, indicate whether the rationale, described in LaMontagne's testimony at 21 to "grandfather" existing standby customers with self generation, still applies for the availability clause noted in a) above.

Response

Please refer to the response to Information Request DTE-2-16.

Information Request DTE-3-13

In reference to Commonwealth's proposed method for determining the customer's "Contract Demand" for rates SB-1 and SB-2 please:

- a) list and explain the reasons why the Contract Demand is based on the generating capability or the expected output of the customer's generation units;
- b) indicate whether the contract demand so determined will be on a monthly, seasonal or annual basis;
- c) explain the reasons for the use of the period identified in b) above.

Response

- a) It is assumed that, in most cases, the customer will require standby service for the full generating capability or the expected output of the customer's on-site generation. Unless a customer were willing to interrupt or reduce electrical service or the electrical output routinely exceeded the internal load of the customer, Commonwealth would be required to be ready to supply the amount of standby demand equal to the output of the customer's generation, if the generator were to go out-of-service. As explained in the response to Information Request DTE-1-2, there may be circumstances where the contract demand could be different from the generator capability.
- b) The contract demand would remain at its initial setting for each billing month, subject to the provisions of the proposed rate schedule entitled "Determination of Kilowatt Demand for Billing".
- c) As described in Exhibit NSTAR-HCL-1, at 11-15, the costs of the distribution capacity needed for providing standby/backup service are fixed once reserved for the customer and installed by NSTAR Electric. Accordingly, it is appropriate to recover such costs for each billing period that the customer requires the standby/backup service.

Information Request DTE-3-14

In reference to Commonwealth's proposed standby tariffs for rates SB-1 and SB-2, at 2 and 3, please describe with supporting schedules how the Company determined the distribution charge rates of \$3.00 and \$4.97 per kilovolt-ampere for rates SB-1 and SB-2, respectively.

Response

As described at page 25 of Exhibit NSTAR HCL-1, the calculation of the demand charges is set forth in Exhibit NSTAR-HCL-4.



Information Request DTE-3-15

In reference to Commonwealth's proposed standby tariff rates SB-1 and SB-2, at 2 and 3, please provide a version of each of the proposed tariffs indicating the charges per the "Applicable Rate Schedule" for standby delivery service and supplemental service charges.

Response

Please see Attachments DTE-3-15(a) and DTE-3-15(b), which provide versions of the proposed tariffs indicating the charges associated with the "Applicable Rate Schedule." Attachment DTE-3-15(a) shows the SB-G-3 tariff, and Attachment DTE-3-15(b) shows the SB-G-2 tariff.

NSTAR ELECTRIC  
COMMONWEALTH ELECTRIC COMPANY

M.D.T.E. No. xxx

Page 1 of 6

### GENERAL SERVICE

#### **RATE SB-G3**

#### AVAILABILITY

Service under this rate shall apply to any Customer who executes a Standby Service Agreement with the Company and who satisfies the following conditions:

1. The Customer normally satisfies all, or a portion of, its internal electric load from generation unit(s) with a combined nameplate rating greater than 60 kW ("Generation Units"), where electricity provided by the Generation Units is not delivered over Company-owned facilities under an applicable retail delivery tariff.
2. The Customer expects the Company to deliver electricity to satisfy the Customer's internal electric load when the Generation Units are not supplying all of the Customer's electric load requirements.
3. The Customer began satisfying all, or a portion of, its internal electric load requirements from Generation Units after the effective date of this tariff.

Service under this rate is available for all use at a single location on contiguous private property subject to the specific availability and billing provisions of Rate G-3 to the extent such provisions are not superceded herein. The electricity supplied to the Customer shall be measured through one or more meters as determined by the Company. The Customer must furnish at its expense a connection whereby the Company can meter the power supplied by the Generation Units. All meters shall be owned, operated and maintained by the Company. Service hereunder is not available for resale.

#### TYPES OF SERVICE

Standby Delivery Service provides for the Company standing ready to provide delivery of electricity supply to replace the portion of the Customer's internal electric load normally supplied by the Generation Units should the Generation Units be unable to provide all, or a portion of, the expected electricity supply.

Supplemental Delivery Service is delivery of electricity over Company-owned facilities for consumption at the Customer's facilities. Supplemental Delivery Service is intended to deliver electricity to satisfy that portion of the Customer's internal load that is not served from the Generation Units. The charges for Supplemental Service will be based on the metered amount of electricity delivered over Company-owned facilities for consumption at the Customer's facilities.

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President

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**GENERAL SERVICE**

**RATE SB-G3**

**RATE PER MONTH**

**Standby Delivery Service:**

Customer Charge:	\$900.00 per month
Distribution Charge:	\$3.00 per kilovolt-ampere
Transmission Charge:	No Charge
Transition Charge:	No Charge

**Determination of Billing Demand:**

The Company will establish the kilovolt-amperes demand to be used for billing Standby Service at the level of the distribution capacity reserved for the Customer stated in kilovolt-amperes. This demand ("Contract Demand") shall be equal to the generating capability or the expected output of the Customer's Generation Unit(s), but shall not exceed the Customer's maximum connected load. If the Customer's actual generation exceeds its contract demand in any month, a new contract demand will be established based upon the maximum fifteen-minute output of the Customer's Generation Unit(s) occurring in such month as measured in kilovolt-amperes.

If for any reason the Company is unable to meter the Customer's Generation Units, the Company shall establish the Contract Demand as the estimate of the maximum capability of the Generation Unit(s).

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GENERAL SERVICE

RATE SB-G3

RATE PER MONTH (continued)

Supplemental Delivery Service:

Customer Charge:	No Charge
Distribution Charge:	\$3.00 per kilovolt-ampere
Transmission (Demand):	\$2.54 per kilovolt-ampere
Transition (Demand):	\$1.99 per kilovolt-ampere
Transition (Energy):	
Peak Load Period	1.646 cents per kilowatt-hour
Low Load Period A	1.425 cents per kilowatt-hour
Low Load Period B	1.187 cents per kilowatt-hour

**Determination of Kilowatt-hours for billing:**

The kWh to be billed for Supplemental Delivery Service shall be the actual kWh delivered by the Company over its distribution system as recorded on the meters measuring the electricity taken by the Customer.

**Determination of Billing Demand:**

The Company will establish the kilovolt-amperes demand to be used for billing Supplemental Delivery Service as the greatest of the following as recorded on the meters measuring electricity taken by the Customer :

- a) The maximum fifteen-minute demand established during the Peak Load Period of the billing month as measured in kilovolt-amperes,
- b) 35% of the maximum fifteen-minute demand established during any billing period of the billing month.

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**GENERAL SERVICE**

**RATE SB-G3**

**RATE PER MONTH** (continued)

**Supplemental Delivery Service:**

**Adjustments:**

- i) In the case of an outage or reduction in output of the customer generation below the Contract Demand, the interval demands used to determine the billing demand for the Distribution charges under this Supplemental Delivery Service will be reduced by the difference between the amount of the Contract Demand and the actual output of the Generation Unit(s) for the period of the reduction or outage. Such reduction will not be greater than the metered supplemental demand.
- ii) In the case of a Customer generating kilovolt-amperes, but receiving reactive power from the Company for their reactive load requirements that otherwise should be supplied by such generation, the Customer's kilovolt-ampere demand for billing will be adjusted to properly account for the actual output of the generator.
- iii) For the purposes of the adjustments referred to above, if for any reason the Company is unable to meter the Customer's generation Unit(s), the Company may estimate any adjustments reasonably required. In such cases, the Customer at the Company's request shall provide reasonable reliable documentation of the operation of the Generation Unit(s) during the reduction or outage periods.

**Supplier Services: (Optional)**

**Determination of Kilowatt-hours for billing:**

The kWh to be billed for Supplier Service shall be the actual kWh delivered by the Company over its distribution system as recorded on the meters measuring the electricity taken by the Customer.

Standard Offer: As in effect per Tariff

Default Service: As in effect per Tariff

**MINIMUM CHARGE**

The minimum charge per month shall be the Customer Charge.

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**GENERAL SERVICE**

**RATE SB-G3**

**BILLING PERIODS**

**Peak Load Period:**

During that portion of the year when eastern daylight savings time is in effect, the period beginning at 9:00 a.m. and ending at 6:00 p.m. on all weekdays, Monday through Friday.

During that portion of the year when eastern standard time is in effect, the period beginning at 4:00 p.m. and ending at 9:00 p.m. on all weekdays, Monday through Friday.

**Low Load Period:**

All hours not included in the Peak Load Period. The Low Load Period shall be further divided into 2 separate time periods as follows:

**Low Load Period A:**

All hours not included in the Peak Load Period or Low Load Period B.

**Low Load Period B:**

During both eastern daylight savings time and eastern standard time, the period beginning at 10:00 p.m. and ending at 7:00 a.m. on all weekdays, Monday through Friday, and all hours on Saturday and Sunday.

**RATE ADJUSTMENTS**

The charges for Supplemental Delivery service shall be subject to the following:

Energy Efficiency Charge  
Renewable Energy Charge  
Default Service Adjustment  
Pension Adjustment

**FARM DISCOUNT RIDER**

A Customer taking service under this rate may be eligible for the Company's Farm Discount Rider, as in effect from time to time.

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**GENERAL SERVICE**

**RATE SB-G3**

**TERMS OF PAYMENT**

Charges are net and are payable upon presentation of the Company's bill.

**TERM**

Service under this rate shall be for a minimum term of 12 consecutive months and shall continue thereafter until terminated on six months' written notice by the Customer.

Customers served under this rate must provide the Company with 36 months prior written notice of a request to transfer to non-firm standby service available from the Company.

Except for Customers engaging in net metering, Customers served under this rate must provide the Company with six months' prior written notice before installing or allowing to be installed for its use additional non-emergency generator capacity greater than that in place on the Customer's location at the initiation of service under this rate.

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NSTAR ELECTRIC  
COMMONWEALTH ELECTRIC COMPANY

M.D.T.E. No. xxx

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**GENERAL SERVICE**

**RATE SB-G2**

**AVAILABILITY**

Service under this rate shall apply to any Customer who executes a Standby Service Agreement with the Company and who satisfies the following conditions:

1. The Customer normally satisfies all, or a portion of, its internal electric load from generation unit(s) with a combined nameplate rating greater than 60 kW ("Generation Units"), where electricity provided by the Generation Units is not delivered over Company-owned facilities under an applicable retail delivery tariff.
2. The Customer expects the Company to deliver electricity to satisfy the Customer's internal electric load when the Generation Units are not supplying all of the Customer's electric load requirements.
3. The Customer began satisfying all, or a portion of, its internal electric load requirements from Generation Units after the effective date of this tariff.

Service under this rate is available for all use at a single location on contiguous private property subject to the specific availability and billing provisions of Rate G-2 to the extent such provisions are not superceded herein. The electricity supplied to the Customer shall be measured through one or more meters as determined by the Company. The Customer must furnish at its expense a connection whereby the Company can meter the power supplied by the Generation Units. All meters shall be owned, operated and maintained by the Company. Service hereunder is not available for resale.

**TYPES OF SERVICE**

Standby Delivery Service provides for the Company standing ready to provide delivery of electricity supply to replace the portion of the Customer's internal electric load normally supplied by the Generation Units should the Generation Units be unable to provide all, or a portion of, the expected electricity supply.

Supplemental Delivery Service is delivery of electricity over Company-owned facilities for consumption at the Customer's facilities. Supplemental Delivery Service is intended to deliver electricity to satisfy that portion of the Customer's internal load that is not served from the Generation Units. The charges for Supplemental Service will be based on the metered amount of electricity delivered over Company-owned facilities for consumption at the Customer's facilities.

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**GENERAL SERVICE**

**RATE SB-G2**

**RATE PER MONTH**

**Standby Delivery Service:**

Customer Charge:	\$360.13 per month
Distribution Charge:	\$4.97 per kilovolt-ampere
Transmission Charge:	No Charge
Transition Charge:	No Charge

**Determination of Billing Demand:**

The Company will establish the kilovolt-amperes demand to be used for billing Standby Service at the level of the distribution capacity reserved for the Customer stated in kilovolt-amperes. This demand ("Contract Demand") shall be equal to the generating capability or the expected output of the Customer's Generation Unit(s), but shall not exceed the Customer's maximum connected load. If the Customer's actual generation exceeds its contract demand in any month, a new contract demand will be established based upon the maximum fifteen-minute output of the Customer's Generation Unit(s) occurring in such month as measured in kilovolt-amperes.

If for any reason the Company is unable to meter the Customer's Generation Units, the Company shall establish the Contract Demand as the estimate of the maximum capability of the Generation Unit(s).

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**GENERAL SERVICE**

**RATE SB-G2**

**RATE PER MONTH** (continued)

**Supplemental Delivery Service:**

Customer Charge:	No Charge
Distribution Charge	\$4.97 per kilovolt-ampere
Transition (Energy):	1.855 cents per kilowatt-hour
Transmission (Demand):	\$1.56 per kilovolt-ampere
Transmission (Energy):	0.233 cents per kilowatt-hour

**Determination of Kilowatt-hours for billing:**

The kWh to be billed for Supplemental Delivery Service shall be the actual kWh delivered by the Company over its distribution system as recorded on the meters measuring the electricity taken by the Customer.

**Determination of Billing Demand:**

The Company will establish the kilovolt-amperes demand to be used for billing Supplemental Delivery Service as the greatest of the following as recorded on the meters measuring electricity taken by the Customer :

- a) The maximum fifteen-minute demand occurring during the Peak Load Period in the billing month as measured in kilovolt-amperes,
- b) 36% of the maximum fifteen-minute demand occurring in any billing period of the billing month.

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**GENERAL SERVICE**

**RATE SB-G2**

**RATE PER MONTH** (continued)

**Supplemental Delivery Service:**

**Adjustments:**

- i) In the case of an outage or reduction in output of the customer generation below the Contract Demand, the interval demands used to determine the billing demand for the Distribution charges under this Supplemental Delivery Service will be reduced by the difference between the amount of the Contract Demand and the actual output of the Generation Unit(s) for the period of the reduction or outage. Such reduction will not be greater than the metered supplemental demand.
- ii) In the case of a Customer generating kilovolt-amperes, but receiving reactive power from the Company for their reactive load requirements that otherwise should be supplied by such generation, the Customer's kilovolt-ampere demand for billing will be adjusted to properly account for the actual output of the generator.
- iii) For the purposes of the adjustments referred to above, if for any reason the Company is unable to meter the Customer's generation Unit(s), the Company may estimate any adjustments reasonably required. In such cases, the Customer at the Company's request shall provide reasonable reliable documentation of the operation of the Generation Unit(s) during the reduction or outage periods.

**Supplier Services: (Optional)**

**Determination of Kilowatt-hours for billing:**

The kWh to be billed for Supplier Service shall be the actual kWh delivered by the Company over its distribution system as recorded on the meters measuring the electricity taken by the Customer.

Standard Offer: As in effect per Tariff

Default Service: As in effect per Tariff

**MINIMUM CHARGE**

The minimum charge per month shall be the Customer Charge.

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**GENERAL SERVICE**

**RATE SB-G2**

**BILLING PERIODS**

**Peak Load Period:**

During that portion of the year when eastern daylight savings time is in effect, the period beginning at 9:00 a.m. and ending at 6:00 p.m. on all weekdays, Monday through Friday.

During that portion of the year when eastern standard time is in effect, the period beginning at 4:00 p.m. and ending at 9:00 p.m. on all weekdays, Monday through Friday.

**Low Load Period:**

All hours not included in the Peak Load Period. The Low Load Period shall be further divided into 2 separate time periods as follows:

**Low Load Period A:**

All hours not included in the Peak Load Period or Low Load Period B.

**Low Load Period B:**

During both eastern daylight savings time and eastern standard time, the period beginning at 10:00 p.m. and ending at 7:00 a.m. on all weekdays, Monday through Friday, and all hours on Saturday and Sunday.

**RATE ADJUSTMENTS**

The charges for Supplemental Delivery service shall be subject to the following:

Energy Efficiency Charge  
Renewable Energy Charge  
Default Service Adjustment  
Pension Adjustment

**FARM DISCOUNT RIDER**

A Customer taking service under this rate may be eligible for the Company's Farm Discount Rider, as in effect from time to time.

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**GENERAL SERVICE**

**RATE SB-G2**

**TERMS OF PAYMENT**

Charges are net and are payable upon presentation of the Company's bill.

**TERM**

Service under this rate shall be for a minimum term of 12 consecutive months and shall continue thereafter until terminated on six months' written notice by the Customer.

Customers served under this rate must provide the Company with 36 months prior written notice of a request to transfer to non-firm standby service available from the Company.

Except for Customers engaging in net metering, Customers served under this rate must provide the Company with six months' prior written notice before installing or allowing to be installed for its use additional non-emergency generator capacity greater than that in place on the Customer's location at the initiation of service under this rate.

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Information Request DTE-3-16

In reference to Commonwealth's proposed standby tariffs for rate SB-1, at 3 and rate SB-2, at 3, please describe how the Company determined the 35 percent and 36 percent, respectively, of the maximum fifteen-minute demand used as a basis for determining the customer's demand to be used for billing supplemental delivery service.

Response

These reductions were included in the bundled sales rates that existed prior to rates becoming unbundled in 1997. The percentage reductions reflect the same level of reductions that exist in the otherwise applicable rate schedules. The percentage reductions were intended to exclude from off-peak demand levels the percentage of demand costs other than the cost of distribution facilities (e.g., generation capacity charges). The remaining percentage of billing demands represented the portion of total demand costs that was distribution related. The mechanisms prescribed by the Department for unbundling rates generally did not allow for these reductions to be changed or eliminated.

Information Request DTE-3-17

In reference to Commonwealth's proposed standby tariffs for rates SB-1 and SB-2, at 5, please describe how the Company determined the 36 months prior written notice requirement from the customer in order to transfer to a non-firm standby service.

Response

Please refer to the response to Information Request DTE-2-21.

Information Request DTE-3-18

Please provide a copy of Commonwealth's most recently approved marginal transmission and distribution costs studies and identify the marginal transmission and distribution unit costs for rates G-2 and G-3 indicated in those studies.

Response

Please refer to Attachment DTE-3-18. Because this attachment is so voluminous, it is being provided to the Department on a compact diskette.



Information Request DTE-3-19

Please calculate the long-run marginal distribution and transmission costs of Commonwealth's rates G-2 and G-3 based on Department precedent and using more recently available data. Provide all supporting data and schedules and described the method and all assumptions used.

Response

Commonwealth requires additional time to complete the update to its distribution marginal costs in response to this question. A copy of the distribution marginal cost study will be provided as a supplemental response to this request. In addition, since the FERC has assumed jurisdiction over the level of transmission rates that Boston Edison can charge retail customers, the Company no longer performs marginal cost calculations for the transmission function.

Information Request DTE-3-20

Refer to Exh. NSTAR-HCL-1, at 22, lines 17-22. When a customer's generating unit has reduced output, under what conditions would the metered demand for Supplemental Service be reduced correspondingly to either 1) an amount more than zero; or 2) an amount less than zero. Please provide examples for each condition.

Response

The Companies have provided an example of the reduction of the supplemental demand when the generation unit has reduced output on page 28 of Exhibit NSTAR-HCL-1 and at Exhibit NSTAR-HCL-5. This example results in a supplemental demand that is reduced to an amount greater than zero. If the customer's internal load in this example had been less than 500 kW, the reduction, if not otherwise adjusted, would result in a supplemental demand of less than zero. The provisions of the proposed standby tariff prevent such a result.